



Lucy's Journey

“The Adventure Begins”

1
00:00:00,750 --> 00:00:03,750
[music throughout]

2
00:00:03,750 --> 00:00:07,666
You might be wondering,
where is Lucy off to?

3
00:00:07,666 --> 00:00:11,750
Ah, yes! The Trojan asteroids.

4
00:00:11,916 --> 00:00:15,333
These are a population of asteroids
in orbit around the Sun,

5
00:00:15,666 --> 00:00:18,833
about as far away as Jupiter.

6
00:00:18,833 --> 00:00:22,583
It may seem far away to you,
but our Lucy spacecraft

7
00:00:22,750 --> 00:00:26,833
is a capable explorer
and ready to make the trek to her targets.

8
00:00:27,083 --> 00:00:30,916
Lucy is aiming to visit asteroids
in both of these Trojan swarms

9
00:00:30,916 --> 00:00:32,583
on her 12 year mission.

10
00:00:32,583 --> 00:00:36,250
The pull of gravity from the Sun balances
the pull from Jupiter

11
00:00:36,500 --> 00:00:41,000
to keep the Trojan asteroids in these two
groups due to the gravitational

12

00:00:41,000 --> 00:00:45,583

balancing act, these asteroids have been
in these orbits for billions of years.

13

00:00:45,916 --> 00:00:48,833

It's still quite the challenge
to explore these targets.

14

00:00:49,333 --> 00:00:52,666

However, our intrepid explorer
is ready for her mission.

15

00:00:53,000 --> 00:00:54,666

Aren't you, Lucy?

16

00:00:54,750 --> 00:00:58,750

Ah, of course. You'll be the
first spacecraft to visit these asteroids.

17

00:00:59,000 --> 00:01:03,333

I can't help but wonder, though,
why choose these asteroids in particular?

18

00:01:04,750 --> 00:01:08,750

I see the scientific evidence says
the Trojan asteroids

19

00:01:09,000 --> 00:01:12,166

are leftover material
from the formation of the planets.

20

00:01:15,666 --> 00:01:18,750

Right. These asteroids hold vital clues

21

00:01:18,916 --> 00:01:21,916

to understanding the history
of our Solar System.

22

00:01:22,416 --> 00:01:25,083

It's just like a treasure hunt.

23

00:01:25,083 --> 00:01:29,083

What you discover could teach us
about the history of the Solar System

24

00:01:29,500 --> 00:01:33,166

and how the planets, including Earth,
came to be the way they are.

25

00:01:35,416 --> 00:01:38,500

I won't hold you up any longer.

26

00:01:38,500 --> 00:01:41,416

Safe travels on your journey.